ARIZONA GAME AND FISH DEPARTMENT HABITAT PARTNERSHIP PROGRAM HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL

PROJECT INFORMATION				
Project Title: Geospatial Analysis of Temporal Trends of Nuisance Black Bears			Project No. 10-704	
Region/GMU: Statewide	HPC: Statewide	e		
Project Type: GIS analysis of nuisance bear occurrences				
Project Description: Summary: Conduct a geospatial analysis of Department data for the last ten years (2000-2010) of statewide nuisance bear complaints. Using GIS, locations of incidents can be geospatially represented, and used to display temporal trends around municipalities, townships and other populated areas. This data will provide meaningful information for use in preparation of a comprehensive management plan regarding nuisance bears.				
Wildlife Species to Benefit: Bear				
Possible Funding Partners: ASU/AZGFD				
Implementation Schedule: Beginning: Sept 2010 Completed: May 2011	NEPA Compliance: (if applicable) Completed: Yes No Projected Completion Date: May 2011			
PROJECT FUNDING				
SBG Funds Requested: \$7,680 (Bear)				
Cost Share Funds: \$16,500 (ASU GIS lab)				
Total Project Costs: \$23,680				
PARTICIPANT INFORMATION				
Applicant: Brian Wakling (please print) Telephone: 623-236-7385	Address: 5000 West Carefree Highway Phoenix, AZ 85086			
AGFD Contact and Phone No. Not Applicable (If applicant is not AGFD personnel)				
Coordinated with: Not Applicable		Date: 8-30-2010		
Applicant's signature: Dan Sturla		Date: 08/31/2010		

SEND COMPLETED APPLICATIONS TO: Game Branch

AZ Game and Fish Dept. 5000 W. Carefree Highway Phoenix, AZ 85086

WAS PROJECT PRESENTED TO THE LOCAL HPC?	YES	NO <u>X</u>
This is a statewide proposal		

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED? No.

Need Statement/ Problem Analysis - The primary need is to geospatially identify trends in nuisance bear occurrences in urban areas. The state receives hundreds of calls annually regarding nuisance bears which often result in challenging public relation issues related to perceived controversial nature of human/bear interactions. These calls result in Wildlife Managers spending hundreds of hours responding to calls, capturing, releasing and/or destroying (15 bears were destroyed in 2009 mostly due to garbage issues) bears. Data (existing documented locations of human/bear interactions) and the GIS analysis of these accounts may provide for recommendations towards a comprehensive management plan that provides opportunities for proactive public relations and targeted bear harvest opportunity among hunters for bears in close proximity to urban areas. It is anticipated that targeted harvest near areas of high nuisance reporting will result in a reduction in the number of annual nuisance complaints.

<u>Project Objective</u> - The objective is to incorporate existing human/bear interaction data necessary to identify trends in nuisance bear occurrences and likely future geographic locations of human/bear interactions. Using geospatial analysis we plan to prepare recommendations for a comprehensive management plan regarding nuisance bears

<u>Project Strategies</u> - The AGFD, Game Branch, would like to hire an intern with training and experience in both wildlife management techniques and geospatial programming for data analysis to perform a GIS analysis for the period 2000-2010 of all occurrences of nuisance bear complaints. The funds from this HPC proposal would provide funds to the intern who would conduct the geospatial analysis. Analysis will be completed by May 2011.

PROJECT LOCATION:

Phoenix Game and Fish Office, Arizona State University GIS resources and intern's residence

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name): Not Applicable

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

Not Applicable

HABITAT DESCRIPTION:

Statewide: Ponderosa Pine, Pinion Juniper, Chaparral, Upper Sonoran Desert, Riparian, Madrean Evergreen,

etc.

ITEMIZED USE OF FUNDS:

Intern has agreed to perform the analysis at \$12/hr for an eight-month duration not to exceed 40 hours per pay period.

\$12 x 80hr/month=\$7,680

CostMatch:

Arc Info software with Spatial Analyst purchased by ASU at a cost of \$16,500 (\$14,000 for the software, \$2,500 for the spatial analyst extension)

Project total \$23,680

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Not Applicable

PROJECT MONITORING PLAN:

Not Applicable

PROJECT MAINTENANCE:

Not Applicable

PROJECT COMPLETION REPORT TO BE FILED BY: Dan Sturla

WATER DEVELOPMENT PROJECTS (see attached worksheet):

Not Applicable

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):

Not Applicable